Index of keywords

Al–Mn, 245, 267
Al–Mn hexagonal μ phase, 303
Al–Mn–Si, 245
Al_2O_3, 103
Aluminium oxide, 103
Aluminium–manganese alloys, 287
Al–V, 267
Analysis, 87
Automated image analysis, 201

Background elimination, 191
Background fitting, 1
Backscattered electrons, 183
Bone, 137
Buffer, 143
Buffer capacity, 143

Cell morphology, 209
Cell volume, 209
Cerebellum, 137
Characteristic signals, 1
Clearing technique, 157
Colloidal gold, 183
Computer imaging, 209
Concentration ratios, 1
Confocal light microscopy, 137
Cryomicroscope, 209
Cryosectioning, 169
Cytochalasin D, 29

Dark field electron microscopy, 267
Decagonal, 287
Decagonal phase, 267
Decagonal quasicrystal, 245
Dendrite, 261
Depth colour coding, 137
Digital image processing, 191
Dissociation, 143
Double-refracting microinterferometers, 41
Dynamic threshold setting, 191

EDS, 261
Electron diffraction, 287, 303
Electron energy loss spectroscopy (EELS), 1
Electron microscopy, 143
Elemental analysis, 1
Endothelial cells, 29
Energy dispersive X-ray spectroscopy (EDX), 1
Errors, 163

50S ribosomal subunit, 113
Fixation, 143
Fixative, 143
Fluorescent probe, 87
Forming process, 261
Fourier analysis, 163
Freeze-drying, 67
Freezing, 67, 209
Frozen-dried cryosections, 77

Gated filter, 191
Glutaraldehyde, 143
Grain boundary precipitates, 323

Heart muscle, 77
Histological sections, 201
Histology, 55
Histopathology, 55
HREM, 313

Icosahedral, 287
Icosahedral phases, 233, 267
Icosahedral quasicrystal, 245
Icosahedral symmetry, 225
Image analysis, 209
Image processing, 113
Index of reactivity, 143
Intensity modulation, 303
Ionization cross sections, 1
Ions, 77

Liver, 77
Local translation order, 313
Low magnification, 97
Low-dose electron microscopy, 113
Lymphocyte, 183

Many-beam image electron microscopy, 245
Megagametogenesis, 157
Megasporogenesis, 157
Methyl salicylate, 157
$Mg_{32}(Al, Zn)_{49}$ quasicrystals, 323
Microcomputer, 55
Microstructure, 55
Mitochondria, 67
Morphology, 287
Multi-slice calculation, 17

$NiTi_2$, 313

Osmolarity, 143

Particle location, 191
Pattern recognition, 191
Penrose tiling, 233
Phase-contrast microscopy, 157
Polarization microinterferometers, 41
Purity, 87

Quantification, 183, 201
Quantitative measurements, 97
Quasicrystalline, 261
Quasicrystalline materials, 267
Quasicrystals, 225, 233, 287, 303, 313
Quasiperiodicity, 225

Rapidly solidified alloy, 245
Reconstruction, 55
Reflectance, 163

Reflection electron microscopy (REM), 17
Response to mechanical stress, 29
Retrograde transport, 87

Scanning acoustic microscopy, 29
Scanning electron microscopy, 97
Scanning reflection electron microscopy (SREM), 17
SEM, 183
Serial sections, 55
SITS, 87
Solanum, 157
Solid–solid transformations, 323
Space group determination, 303
Spinal cord, 137
Spot extraction, 191
Stereo-imaging, 137
Stereology, 55
Structures with icosahedral clusters, 303
Substructure, 261
Surface antigens, 183
Surface forces, 29
Surface reactions, 17
Surface resonance, 17
Surface steps, 17
Synthesis, 87
Synthetic ruby, 103
Synthetic sapphire, 103
Systematical error, 97

Thin sectioning, 103
Three-dimensional reconstruction, 113
Top hat filter, 191
Transmission electron microscopy, 261, 267
Truncation, 287

Ultramicrotome knife, 103

Variable interfringe spacing, 41
Vehicle, 143
Vessel wall components, 201

Water, 77
Water content, 67
Wollaston prism, 41

X-ray imaging, 169
X-ray microanalysis, 77, 169

Index of authors

Aggarwal, S.J., 209

Bendersky, L., 303
Bereiter-Hahn, J., 29
Bimmler, M., 67, 77
Boyde, A., 137
Bright, D.S., 191

Cassada, W.A., 323
Chapman, J.N., 1
Chattopadhyay, K., 287
Christensen, H., 183
Coetzee, J., 143
Cornelissen, F., 201
Cowley, J.M., 17
Craven, A.J., 1
Crozier, P.A., 1
Cunningham, W.P., 103

De Geest, H., 201
Diller, K.R., 209
Duneau, M., 225

Ennemoser, O., 97

Fan Cheng-gao, 261
Frank, J., 113

Harven, E. de, 183
Heyman, R.V., 169
Hirabayashi, M., 245
Hiraga, K., 245
Hodgson, C.P., 103
Horobin, R.W., 87

Inoue, A., 245

Jakobsen, P., 87
Jongedijk, E., 157

Katz, A., 225
Kawasaki, M., 55

Knowles, K.M., 267
Krause, W., 67
Kuo, K.H., 313

Mackay, A.L., 233
Marcos, C., 163
Masumoto, T., 245
Merwe, C.F. van der, 143
Minten, J., 201

Nicieza, C.G., 163

Ou, H.-J., 17

Payne, J.N., 87
Peng, L.-M., 17
Pluta, M., 41
Poon, S.J., 323

Radermacher, M., 113
Ranganathan, S., 287
Rombauts, W., 201

Saubermann, A.J., 169
Shiflet, G.J., 323
Soligo, D., 183
Steel, E.B., 191
Stobbs, W.M., 267
Subbanna, G.N., 287

Takahashi, T., 55
Thangaraj, N., 287
Titchmarsh, J.M., 1
Tsien Ling-chao, 261
Tung Hsu, 17

Verheyen, A., 201
Verschoor, A., 113
Virgos, J.M., 163

Wagenknecht, T., 113
Waitz, W., 97
Wang Yuan-sheng, 261
Wu Zi-qin, 261

Yaegashi, H., 55

Zglinicki, T. von, 67, 77
Zhang, Z., 313